

VOLUNTARY REMEDIATION PROGRAM DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PROJECT SUMMARY

Site Name: Universal Forest Products, Inc.

Applicant's Name: Universal Forest Products, Inc.

Site Location: 50415 Herbert Street

Granger

St. Joseph County

VRP Site Number: 6940203

Project Manager: Carla Gill

Date Application Received:February, 1994Date Project Completed:April, 1999

Project Duration: 5 years, 2 months

Contaminant Group(s): Metals (Hexavalent Chromium, Arsenic, Copper)

Media Cleaned Up:GroundwaterCleanup Goals Achieved:Tier II ResidentialDeed/Land Use Restrictions:Not Applicable

Project Description: The facility was a wood treating plant since 1981. The groundwater beneath the facility became contaminated with hexavalent chromium as a result of spills and leaks of process solutions and the disposal of snow containing wood preserving chemicals onto unpaved areas.

The remedial approach used at the site consisted of the *in situ* fixation of hexavalent chromium in groundwater. The *in situ* fixation involved pumping groundwater from within the hexavalent chromium plume, adding a chemical reductant to the water, and injecting it back into the ground. As the reductant-amended water moved from the point of injection to the pumping wells, it diffused into the plume and reacted with the hexavalent chromium. The result was the reduction of hexavalent chromium to trivalent (nonhazardous), and the subsequent fixation and immobilization of the trivalent chromium onto aquifer solids.